

1. A system for providing translation between a host computer having a first port, the first port compliant with a first standard, and a hardware device which is compliant with a second standard, the first standard and the second standard being non-compatible with each other, the system comprising:

means for direct memory access translation between the host computer and the hardware device;

means for supplying power to the hardware device; and

means for translating the timing between the host computer and the hardware device such that the host computer and the hardware device are interfaced and the functions of the hardware device are provided to the host computer.

2. A system as defined in claim 1 wherein the first standard is a PCMCIA standard and wherein the second standard is an ISA standard.

3. A system as defined in claim 1 wherein the first standard is a PCMCIA standard and wherein the second standard is a PCI standard.

4. A system as defined in claim 1 further comprising means for interrupt translation between the host computer and the hardware device.

5. A system as defined in claim 1 wherein the hardware device comprises at least one ISA compliant add-on printed circuit card.

6. A system as defined in claim 1 wherein the hardware device comprises at least one PCI compliant add-on printed circuit card.

7. A system as defined in claim 1 wherein means for direct memory access translation comprises:

a DMA register; and

a DMA controller.

8. A system as defined in claim 1 wherein the means for supplying power to the hardware device comprises:

means for supplying +12 volts;
means for supplying -12 volts;
means for supplying +5 volts; and
means for supplying -5 volts;

all at a current required to operate the hardware device.

9. A system as defined in claim 1 wherein the port comprises a PCMCIA socket.

10. A system as defined in claim 1 wherein the means for translating the timing comprises a read/write timing generator.

11. A system for providing translation between a host computer having a first port, the first port compliant with a first standard, and a hardware device which is compliant with a second standard, the first standard and the second standard being non-compatible with each other and the hardware device requiring support for a plurality of interrupts, the system comprising:

means for interrupt translation between the host computer and the hardware device;

means for supplying power to the hardware device; and

means for translating the timing between the host computer and the hardware device such that the host computer and the hardware device are interfaced and the functions of the hardware device are provided to the host computer.

12. A system as defined in claim 11 wherein the first standard is a PCMCIA standard and wherein the second standard is an ISA standard.

13. A system as defined in claim 11 wherein the first standard is a PCMCIA standard and wherein the second standard is a PCI standard.

5 14. A system as defined in claim 11 wherein the means for interrupt translation comprises means for translating multiple interrupts required by the hardware device to a single interrupt.

15 15. A system as defined in claim 14 wherein the multiple interrupts comprises at least five interrupts.

10 16. A system as defined in claim 11 wherein the hardware device comprises at least one ISA compliant add-on circuit card.

15 17. A system as defined in claim 11 wherein the hardware device comprises at least one PCI compliant add-on circuit card.

18. A system as defined in claim 11 further comprising means for direct memory access translation.

20 19. A system as defined in claim 11 wherein the means for supplying power to the hardware device comprises:

means for supplying +12 volts;
means for supplying -12 volts;
means for supplying +5 volts; and
means for supplying -5 volts;

25 all at a current required to operate the hardware device.

20. A system as defined in claim 11 wherein the port comprises a PCMCIA socket.

30 21. A system as defined in claim 11 wherein the means for translating the timing comprises a read/write timing generator.

35 22. A system for expanding a host computer having a PCMCIA compliant port and allowing the host computer to interface with at least one ISA compliant device, the system comprising:

means for making electrical and physical connection to the PCMCIA compliant port;

means for making electrical connection to the at least one ISA compliant device;

5 means for interrupt translation between the PCMCIA port and the at least one ISA compliant device;

10 means for direct memory access translation between the PCMCIA port and the at least one ISA compliant device;

means for providing a clock signal to the ISA compliant device;

means for supplying power to the at least one ISA compliant device; and

15 means for translating the timing between the PCMCIA port and the ISA compliant device such that the host computer can utilize the functions of the at least one ISA compliant device.

20 23. A system as defined in claim 22 wherein the at least one ISA compliant device comprises an ISA compliant add-on card and wherein the system further comprises a serial port, a parallel port, a key board port, and a mouse port.

25 24. A system as defined in claim 22 further comprising means for providing DRAM refresh to the ISA compliant device.

25. A system as defined in claim 22 wherein the means for supplying power comprises:

means for supplying +12 volts;

30 means for supplying -12 volts;

means for supplying +5 volts; and

means for supplying -5 volts;

all at a current required to operate the hardware device.

26. A system as defined in claim 22 wherein the means for providing a clock signal comprises means for providing an 8 MHz clock signal and means for providing a 14.318 MHz clock signal.

5 27. A system as defined in claim 22 further comprising:

means for translating a buss address latch enable signal between the PCMCIA port and the at least one ISA compliant device;

10 means for translating between a memory read signal and a memory write signal of the PCMCIA port and a system memory read signal and a system memory write signal for the at least one ISA compliant device; and

15 means for translation between the PCMCIA port and an 8 bit ISA compatible add-on card.

28. A method for providing translation between a host computer having a first port, the first port compliant with a first standard, and a hardware device
20 which is compliant with a second standard, the first standard and the second standard being non-compatible with each other and the hardware device requiring support for a plurality of interrupts, the method comprising the steps of:

25 translating between the interrupts of the host computer and the interrupts of the hardware device;

supplying power to the hardware device; and

30 translating the timing between the host computer and the hardware device such that the host computer and the hardware device are interfaced and the functions of the hardware device are provided to the host computer.

29. A method for providing translation between a host computer having a first port, the first port
35 compliant with a first standard, and a hardware device

which is compliant with a second standard, the first standard and the second standard being non-compatible with each other, the method comprising the steps of:

5 direct memory access translation between the
 host computer and the hardware device;
 supplying power to the hardware device; and
 translating the timing between the host
 computer and the hardware device such that the host
10 computer and the hardware device are interfaced and
 the functions of the hardware device are provided
 to the host computer.

30. A method for expanding a host computer having
a PCMCIA compliant port and allowing the host computer
to interface with at least one ISA compliant device, the
15 method comprising the steps of:

 making electrical and physical connection to
 the PCMCIA compliant port;
 making electrical connection to the at least
 one ISA compliant device;
20 translation between the PCMCIA port interrupt
 and the interrupts of the at least one ISA
 compliant device;
 direct memory access translation between the
 PCMCIA port and the at least one ISA compliant
25 device;
 providing a clock signal to the ISA compliant
 device;
 supplying power to the at least one ISA
 compliant device; and
30 translating the timing between the PCMCIA port
 and the ISA compliant device such that the host
 computer can utilize the functions of the at least
 one ISA compliant device.